

FORM PTO-1449	SERIAL NO. 09/832,269	CASE NO. 3614/174
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE April 10, 2001	GROUP ART UNIT 1614
(use several sheets if necessary)		APPLICANT(S): PEYMAN ET AL.

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
Z-F	B1	2,760,483	08/28/1956	Tassicker		
Z-F	B2	3,594,823	07/27/1971	Collins		
Z-F	B3	3,628,193	12/21/1971	Collins		
Z-F	B4	3,766,311	10/16/1973	Boll		
Z-F	B5	3,848,608	11/19/1974	Leonard		
Z-F	B6	3,914,800	10/28/1975	Collins		
Z-F	B7	4,001,867	01/04/1977	Kravitz et al.		
Z-F	B8	4,211,474	07/08/1980	Le Goff		
Z-F	B9	4,251,887	02/24/1981	Anis		
Z-F	B10	4,272,910	06/16/1981	Danz		
Z-F	B11	4,551,149	11/05/1985	Sciarra		
Z-F	B12	4,600,004	07/15/1986	Lopez et al.		
Z-F	B13	4,601,545	07/22/1986	Kern		
Z-F	B14	4,628,933	12/16/1986	Michelson		
Z-F	B15	4,679,572	07/14/1987	Baker, Jr.		
Z-F	B16	4,750,498	06/14/1988	Graham		
Z-F	B17	4,810,050	03/07/1989	Hooper		
Z-F	B18	4,832,202	05/23/1989	Newman et al.		
Z-F	B19	4,873,448	10/10/1989	Shirai		
Z-F	B20	4,978,842	12/18/1990	Hinton et al.		
Z-F	B21	5,016,633	05/21/1991	Chow		
Z-F	B22	5,024,223	06/18/1991	Chow		
Z-F	B23	5,109,844	05/05/1992	de Juan Jr. et al.		
Z-F	B24	5,130,528	07/14/1992	Phillips, Jr.		
Z-F	B25	5,130,776	07/14/1992	Popovic et al.		
Z-F	B26	5,159,927	11/03/1992	Schmid		
Z-F	B27	5,223,728	06/29/1993	Gempe		
Z-F	B28	5,256,882	10/26/1993	Miyasaka		
Z-F	B29	5,338,991	08/16/1994	Lu		
Z-F	B30	5,351,309	09/27/1994	Lee et al.		
Z-F	B31	5,397,350	03/14/1995	Chow et al.		
Z-F	B32	5,411,540	05/02/1995	Edell et al.		
Z-F	B33	5,476,494	12/19/1995	Edell et al.		
Z-F	B34	5,491,349	02/13/1996	Komoto et al.		
Z-F	B35	5,556,423	09/17/1996	Chow et al.		
Z-F	B36	5,648,655	07/15/1997	Rostoker		

EXAMINER <i>Robert Foy</i>	DATE CONSIDERED <i>9/8/03</i>
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Z.F	B37	5,717,201	02/10/1998	Lin et al.		
Z.F	B38	5,837,995	11/17/1998	Chow et al.		
Z.F	B39	5,865,839	02/02/1999	Doorish		
Z.F	B40	5,895,414	04/20/1999	Sanchez-Zambrano		
Z.F	B41	5,895,415	04/20/1999	Chow et al.		
Z.F	B42	5,935,155	08/10/1999	Humayun et al.		
Z.F	B43	5,944,747	08/31/1999	Greenberg et al.		
Z.F	B44	6,032,062	02/29/2000	Nisch		
Z.F	B45	6,035,236	05/08/2001	Jarding et al.		
Z.F	B46	6,230,057 B1	05/08/2001	Chow et al.		
Z.F	B47	6,389,317 B1	05/14/2002	Chow et al.		
Z.F	B48	US 2002/014764 A1	10/10/2002	Peyman		
Z.F	B49	6,393,327 B1	05/21/2002	Scribner		

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
Z.F	B50	DE 195 29 371 C2	02/13/97	Germany		
Z.F	B51	GB 2 229 543 A	09/26/90	Great Britain		
Z.F	B52	EP 0 084 621 A2	11/23/82	EPO		
Z.F	B53	EP 0 233 789	08/26/87	EPO		
Z.F	B54	EP 0 501 904 A2	09/02/92	EPO		

EXAMINER INITIAL	OTHER ART - NON PATENT LITERATURE DOCUMENTS <small>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)</small>	
Z.F	B55	Abrams, Dr. Susan B., "Implanted photodiodes could restore lost vision", <i>Biophotonics Research</i> , 1997, 2 pages.
Z.F	B56	Ando, Haruhisa, et al. "Design Consideration and Performance of a New MOS Imaging Device", <i>IEEE</i> , 1985, 6 pages.
Z.F	B57	Armington, J.C., Brigell, M., "Effects of Stimulus Location and Pattern Upon the Visually Evoked Cortical Potential and the Electroretinogram," <i>Intern. J. Neuroscience</i> , Vol. 14, 1981, pp 169-178.
Z.F	B58	Baylor, D.A., Fuortes, M.G.F., "Electrical Responses of Single Cones in the Retina of the Turtle," <i>J. Physiol</i> , Vol. 207, 1970, pp 77-92.
Z.F	B59	Bergmann-Schaefer, "Lehrbuch der Experimentalphysik" (Textbook of Experimental Physics), vol. II, "Electricity and Magnetism" by Prof. Dr. -Ing. H. Gobrecht, 1971, 3 pp. plus translation.

EXAMINER <i>Zohar Fay</i>	DATE CONSIDERED 9/8/03
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2. f	B60	Bobsch, M.D., Joseph M. and Grosser, Ph.D., Morton "Newer Repair at the AXOM Level: A Merger of Microsurgery and Microelectronics," VCH Publishers, Inc., 1967.
2. f	B61	Boettner, E.A., Wolter, J.R., "Transmission of the Ocular Media," <i>Investigative Ophthalmology</i> , Vol. 1, 1962, pp 776-783.
2. f	B62	Brindley, G.S., "The Site of Electrical Excitation of the Human Eye," <i>J. Physiol.</i> , Vol. 127, 1955, pp 189-200.
2. f	B63	Brindley, G.S., "Beats Produced by Simultaneous Stimulation of the Human Eye with Intermittent Light and Intermittent or Alternating Electric Current," <i>J. Physiol.</i> , Vol. 164, 1962, pp 156-167.
2. f	B64	Brown, M.G. et al., "Monolithically Integrated 1 x 12 Array of Planar InGaAs/InP Photodiodes," <i>Journal of Lightwave Technology</i> , Vol. LT-4, No. 3, March 1986, pp. 283-286.
2. f	B65	Chapin, D.M., et al., "A New Silicon p-n Junction Photocell for Converting Solar Radiation into Electrical Power," Letters to the Editor, <i>Journal of Applied Physics</i> , Vol. 25, 1954, pp 676-7.
2. f	B66	Chow, A.Y., "Electrical Stimulation of the Rabbit Retina with Subretinal Electrodes and High Density Microphotodiode Array Implants," ARVO Abstracts, <i>Invest. Ophthalmol. Vis. Sci.</i> 199334 (Suppl), page 835.
2. f	B67	Curcio, C.A., Sloan, K.R., Kalina, R.E., Hendrickson, A.E., "Human Photoreceptor Topography," <i>J Comp. Neuro.</i> , Vol. 292, 1990, pp 497-523.
2. f	B68	Dawson, W.W., Radtke, N.D., "The Electrical Stimulation of the Retina by Indwelling Electrodes," <i>Invest. Ophthalmol. Visual Sci.</i> , Vol. 16, 1997, pp 249-252.
2. f	B69	Dowling, J.E., Ripps, H., Visual Adaptation in the Retina of the Skate," <i>J Gen Physiol.</i> , Vol. 56, 1970, pp 491-520.
2. f	B70	Eagle, R.C., Lucier, A.C., Bernardino, V.B., et al., "Retinal Pigment Epithelial Abnormalities in Fundus Flavimaculatus," <i>Ophthalmol.</i> , Vol. 87, 1980; pp 1189-1200.
2. f	B71	Evans, R.D., Foltz, D., and Foltz, K., "Electrical Stimulation with Bone and Wound Healing," <i>Clin. Podiatr. Med. Surg.</i> , Vol. 18, 2001, pp 79-95.
	B72	Gibiliscos, S., and Sclater, N., <i>Encyclopedia of Electronics</i> , 2d Ed., 1990, pp. 640-645.
2. f	B73	Fenwick, P.B.C., Stone, S.A., Bushman, J., Enderby, D., "Changes in the Pattern Reversal Visual Evoked Potential as a Function of Inspired Nitrous Oxide Concentration," <i>Electroencephalogr. Clin. Neurophysiol.</i> , Vol. 57, 1984, pp 57178-183.
2. f	B74	John B. Flynn, et al. "Total Active Area Silicon Photodiode Array", 1964, 3 pages.
2. f	B75	Graeme, J., "Position-Sensing Photodiode Amplifiers," Ch. 10, 12 pages
2. f	B76	Granit, R., Helme, T., "Changes in Retinal Excitability Due to Polarization and Some Observations on the Relation Between the Processes in Retina and Nerve," <i>J. Neurophysiol.</i> , Vol. 2, 1939, pp 556-565.
2. f	B77	Hagins, W.A., Penn, R.D., Yoshikami, S., "Dark Current and Photocurrent in Retinal Rods," <i>J. Biophys.</i> , Vol. 10, 1970, pp 380-412.
2. f	B78	Hergert, K., "Detectors: Expanded Photodetector Choices Pose Challenges for Designers", <i>The Photonics Design and Applications Handbook</i> (1996).

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2. f	B79	Humayun, M.S., Propst, R.H., Hickinbotham, D., de Juan E., Jr., Dagnelie G., "Visual Sensations Produced by Electrical Stimulation of the Retinal Surface in Patients with End-Stage Retinitis Pigmentosa (RP)," ARVO Abstracts, <i>Invest. Ophthalmol. Vis. Sci.</i> , Vol. 34 Suppl, 1993, page 835.
2. f	B80	Humayun, M., Propst R., de Juan, E., et al., "Bipolar Surface Electrical Stimulation of the Vertebrate Retina," <i>Arch. Ophthalmol.</i> , Vol. 112, 1994, pp 110-116.
2. f	B81	Kane, W.J., "Direct Current Electrical Bone Growth Stimulation for Spinal Fusion", <i>Spine</i> , Vol. 13, 1988, pp 363-365.
2. f	B82	Kataoka, S., "An Attempt Towards an Artificial Retina: 3-D IC Technology for an Intelligent Image Sensor," <i>Transducers '85: International Conference on Solid-State Sensors and Actuators 1985</i> , pp. 440-442.
2. f	B83	Knighton, R.W., "An Electrically Evoked Slow Potential of the Frog's Retina. I. Properties of Response," <i>J. Neurophysiol.</i> , Vol. 38, 1975, pp 185-197.
2. f	B84	Lin, H-C., et al., "The Vertical Integration of Crystalline NMOS and Amorphous Orientational Edge Detector" <i>IEEE Briefs</i> , 1992, 3 pages.
2. f	B85	Melen, R.D., et al., "A Transparent Electrode CCD Image Sensor for a Reading Aid for the Blind," <i>IEEE Journal of Solid-State Circuits</i> , Vol. SC-9, No.2, April 1974, pp. 41-48.
2. f	B86	Narayanan, M.V., Rizzo, J.F., Edell, D., et al., "Development of a Silicon Retinal Implant: Cortical Evoked Potentials Following Focal Stimulation of the Rabbit Retina with Light and Electricity," ARVO Abstracts, <i>Invest. Ophthalmol. Vis. Sci.</i> , Vol. 35 (Suppl), 1994, page 1380.
2. f	B87	Pagon, R.A., "Retinitis Pigmentosa," <i>Survey Ophthalmol.</i> , Vol. 33, 1988, pp 137-177.
2. f	B88	The Penguin Dictionary of Electronics, Editor: Illingworth, V., Young, C., Market House Books Ltd., 1988, pp. 410-413.
2. f	B89	Potts, A.M., Inoue J., Buffum D., "The Electrically Evoked Response of the Visual System (EER)," <i>Invest. Ophthalmol Vis Sci.</i> , 1968; 7:269-278.
2. f	B90	Robblee, L.S., Electrochemical Guidelines for Selection of Protocols and Electrode Materials for Neural Stimulation, Ch. 2, Renner Learning Resource Center (undated), pp 25-66.
2. f	B91	Rovamo, J., Virsu, V., "An Estimation and Application of the Human Cortical Magnification Factor," <i>Exp Brain Res.</i> , Vol. 37, 1979, pp 495-510.
2. f	B92	Rubin, M.L., <i>Optics for Clinicians</i> , Gainesville, TRIAD Scientific Publishers, 1974, pp 119-123.
2. f	B93	Shannon, R.V., "A Model of Safe Levels for Electrical Stimulation," <i>IEEE Transactions Biomed. Eng.</i> , Vol. 39, 1992, pp 424-426.
2. f	B94	Smith, J., "Creating a Bionic Eye", ABC News, 11/5/98, 3 pages.
2. f	B95	Stone, J.L., Barlow, W.E., Humayun, M.S., de Juan, E., Jr., Milam, A.H., "Morphometric Analysis of Macular Photoreceptor and Ganglion Cells in Retinas with Retinitis Pigmentosa," <i>Arch. Ophthalmol.</i> , Vol. 110, 1992, pp 1634-1639.
2. f	B96	Sze, S.M., "Physics of Semiconductor Devices", 2 <sup>nd</sup> Ed., A Wiley-Interscience Publication, John Wiley & Sons, (undated).
2. f	B97	Tasman, E., ed. <i>Duane's Foundations of Clinical Ophthalmology, Volume 3</i> , Philadelphia, Lippincott, 1992; chapter 13:20-25, chapter 60:1-112.

EXAMINER <i>zaburk</i>	DATE CONSIDERED 9/8/03
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Z.F	B98	Terr, L.I., Linthicum, F.H., House, W.F., "Histopathologic Study of the Cochlear Nuclei After 10 Years of Electrical Stimulation of the Human Cochlea," <i>Am. J. Otology</i> , Vol. 9, 1988, pp 1-7.
Z.F	B99	Tomita, T., "Electrical Activity of Vertebrate Photoreceptor," <i>Q. Rev. Biophys.</i> , Vol. 3, 1970, pp. 179-222.
Z.F	B100	Zrenner, E., et al., "The Development of Subretinal Microphotodiodes for Replacement of Degenerated Photoreceptors", <i>Ophthalmic Res.</i> , 1997, pp. 269-280.
Z.F	B101	Wen, R. et al., "Injury-Induced Upregulation of bFGF and CNTF mRNAs in the Rat Retina", <i>The Journal of Neuroscience</i> , November 1995, pp. 7377-7385.
Z.F	B102	A.Y. Chow, G.A. Peyman, J. Pulido, "Safety and Feasibility of Subretinal Artificial Silicon Retina™ Retinal Prosthesis for the Treatment of Patients with Retinitis Pigmentosa", ARVO (The Association of Research in Vision and Ophthalmology), Abstract Issue of Annual Meeting, For Lauderdale, Florida, April 29-May 4, 2001, Abstract 5042-11:11 (1 page and cover page), Published March 15, 2001.

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